SONY.

Mini Hi-Fi Component System

Operating Instructions



WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

NOTICE FOR THE CUSTOMERS IN THE U.S. A.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located on the rear panel.

Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No.MHC-550 Serial No.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION

The use of optical instruments with this product will increase eye hazard.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820 - 40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

NOTICE FOR THE CUSTOMERS IN CANADA

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD. RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Welcome!

Thank you for purchasing the Sony Mini Hi-Fi Component System. This stereo system is packed with fun features. Here are just a few:

- DBFB (Dynamic Bass Feedback) system that boosts low frequency range audio to provide deep, powerful bass through the three-way bass reflex speakers
- A preset feature that lets you store and recall up to 40 of your favourite radio stations (30 stations for U.S.A. and Canadian model)
- A timer that lets you set the CD player, tape player or radio to turn on and off whenever you want
- A graphic equalizer that lets you adjust the audio quality
- A dual tape deck that lets you record from the radio, CD player or from the other tape deck and relay play from both decks
- A remote commander that lets you control the music from your seat

About This Manual

The instructions in this manual are for MHC-550 and FH-B511. Before you start reading, check your model number. MHC-550 is the model used for illustration purpose. And differences are clearly indicated in the text, for example, "FH-B511 only".

Types of differences

and the second s

Yes: Equipped No: Not equipped

U.S.A. and Canada	Australia
Yes	No
No	Yes
No	Yes
	Yes No



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Chapter 1: Setting Up

Connecting the Stereo
Inserting the Batteries
Setting the Clock

Connecting the Stereo

Use the illustrations below to connect your stereo. MHC-550 is the model used for the whole illustration of the stereo.

STEP 1 Connecting the Speakers

1 Twist the speaker cable coating and strip it from the end of the cable.

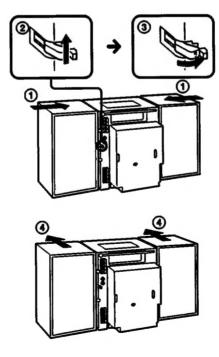


 Connect the right speaker to R connectors and the left speaker to L connectors.

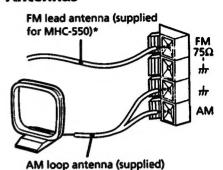


When you attach the speakers to the unit (for FH-B511 only)

Slide the speaker box so that it locks onto the body of the unit.



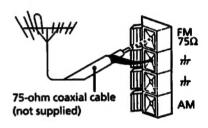
STEP 2 Connecting the Antennas



*Note: Extend it horizontally

To improve the FM reception

Connect an outdoor FM antenna to the FM 75 Ω and $\frac{1}{2}$ terminals, using a 75-ohm coaxial cable.



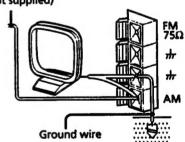
To improve the AM reception

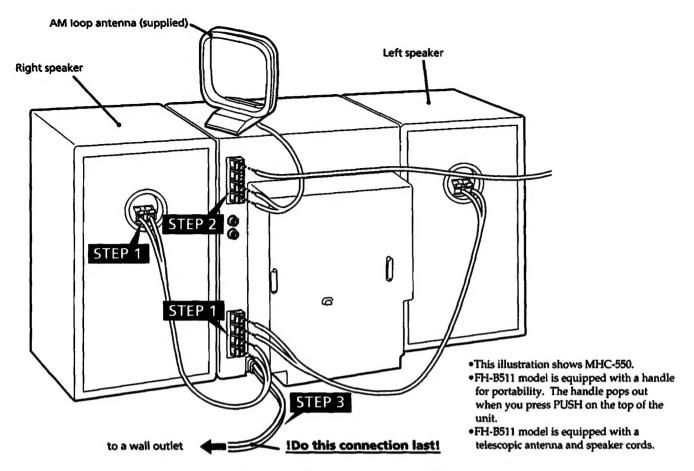
After you connect the AM antenna, connect a 6- to 15-meter (20- to 50- feet) insulated wire to the AM terminal. Connect the $\frac{1}{h}$ terminal to earth.

Important

Ground the external antenna against lightning. To prevent from gas explosion, do not connect the ground wire to a gas pipe.

Insulated wires (not supplied)

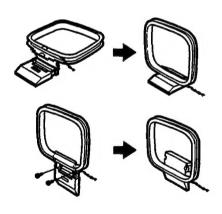




AM loop antenna connection

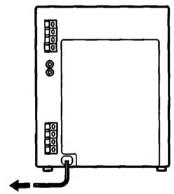
Connect a supplied loop antennas to the AM and the A terminals.

You can attach the loop antenna on the wall using commercially available screws.



STEP 3 Connecting the Power

Connect the power cord to a wall outlet after you have made all the above connections.



to a wall outlet

Caution

Before you power on the stereo, turn the VOLUME control counterclockwise to decrease the sound level.

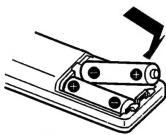
Inserting the Batteries

Insert two size AA (R6) batteries in the supplied remote commander for remote control.

1 Open the lid.



2 Insert two size AA (R6) batteries. Match the + and - indications to the diagram the battery compartment.



3 Close the lid.

Battery life

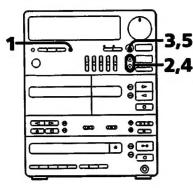
You can expect the remote commander to operate for about six months (using Sony SUM-3 (NS) batteries) before the batteries run down. When the batteries no longer operate the remote commander, replace all the batteries with new ones.

To avoid battery leakage

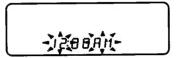
If you are not going to use the remote commander for a long time, remove the batteries to avoid damage caused by corrosion from battery leakage.

Setting the Clock

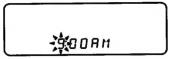
The built-in clock shows the time in the display. You need to set the clock to utilise the timer-activated features of your stereo system. The clock shows the time in the 12hour cycle.



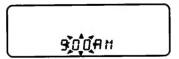
Press CLOCK SET. The hour and "AM" indication begins flashing.



2 Set the current hour by pressing TUNER/TIMER (+/-) until the correct hour appears.



3 Press MEMORY/NEXT. The minutes indication begins flashing.



4 Set the current minute by pressing TUNER/TIMER (+/-) until the correct minute appears.



5 Press MEMORY/NEXT. The clock starts running and the dot

flashes. Use the time signal to set the clock accurately.



To check the time while power is on Press CLOCK DISPLAY on the remote

commander.

The current time appears for a few seconds

To correct the clock setting Repeat steps 1 to 5.

In case of a power cut or when the power cord is disconnected

"12:00 AM" flashes. In this case, set the clock again from step 1. Note that the times setting will be canceled as well. Therefore you have to set it again.

Chapter 2: the CD Player

Playing a CD (normal play)

Playing Tracks in Random Order (shuffle play)

Playing Tracks in the Desired Order (program play)

Playing Tracks Repeatedly (repeat play)

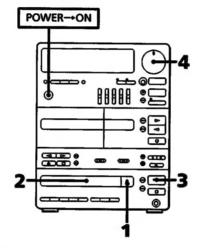
Playing a CD (normal play)

You can play CDs in four modes: normal, shuffle, programme and repeat. The mode decides which tracks (songs) you will listen to, in which order and whether or not they will repeat.

Also, play 12 cm (5 inch) and 8 cm (3 inch) CDs. If the CD is supplied with an adaptor, remove it before playing the CD.

Before you play the CD, decrease the sound level by turning VOLUME control counterclockwise, not to damage the speakers.

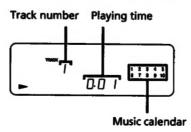
Use the buttons on the unit to do this operation.



- 2 Holding the CD by the edge, place the CD on the CD tray with the label side up. (When you play an 8 cm CD, place it on the inner circle of the CD tray.)



3 Press ►II (play).
The CD tray closes and play starts.



4 Adjust the volume.

Turn VOLUME clockwise to turn up the volume, or counterclockwise to turn it down.

То	press
Stop play	
Pause	▶11 (or 11*)
Resume play	▶11 (▶ or 11 *)
Remove the CD	

* Remote commander

To find the beginning of a track - Automatic Music Sensor (AMS)

You can locate the beginning of a track while the track is playing or while it is in pause mode.

To locate the beginning of the current or preceding track, press ► (or ► on the remote commander) repeatedly until you find the desired track.

To locate the beginning of the succeeding track, press ▷ I (or ▷ I on the remote commander) repeatedly until you find the desired track.

To find a point in a track

You can find a particular point in a track while the track is playing or while it is in pause mode. Use the buttons on the unit to operate this feature.

This operation is not possible with the remote commander.

То	Do this
Find forward quickly in a track	Hold down DD and release it at the desired point.
Go backwards quickly in a track	Hold down ► and release it at the desired point.
Search quickly without listening	Press ►II and hold down I✓ or ▷✓. Press ►II again at the desired point.

→ continued

To check the remaining or total playing time

Use the TIME button on the player.

To check	Press
Remaining time in a track	TIME once during play.
Remaining time on the CD	TIME twice during play of the tracks left.
Total playing time and number of tracks	TIME in stop mode.
	appears for a few second

Notes

- You can check the remaining time during normal, shuffle and program play.
- If the CD has more than 20 tracks, the remaining time of tracks beyond number 20 are displayed "----".

Notes on handling discs

- To keep the disc clean, handle the disc by the edge. Do not touch the surface.
- Do not stick paper or tape onto the disc.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.

One Touch Play feature

Press >11 (or on the remote commander) when the power is off.

When a CD is in the player, you will be able to start listening to the CD without pressing any other buttons.

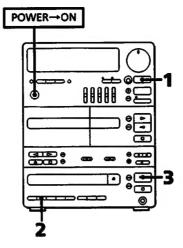
If there is no CD in the player

"NO DISC" appears in the diplay. Press ►II (or ► on the remote commander) while indication is on, the CD tray will open automatically.

Playing Tracks in Random Order (shuffle play)

You can play all the tracks on the CD in random order.

Use the buttons on the unit to do this operation.



- 1 Press FUNCTION several times. CD is selected.
- 2 Press SHUFFLE.
 "SHUFFLE" appears in the display.
- 3 Press ►II.
 "f3" appears and then all
 - "th" appears and then all the tracks play in random order.

To stop playing Press ■.

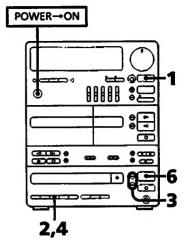
To cancel shuffle play

Press CONTINUE.

"SHUFFLE" disappears from the display, and tracks continue playing in their original order.

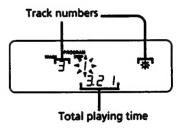
Playing Tracks in the Desired Order (program play)

You can program up to 24 tracks to play in any order you choose. You can do this by designating the tracks in the order you want them to play.



- 1 Press FUNCTION several times. CD is selected.
- 2 Press PROGRAM.
 "PROGRAM" appears in the display.
- Press I or D to choose a track.

 The track number, the playing order and the total playing time appears in the display. If you want to choose this track, go to the next step. If not, press or D again to choose another track.



4 Press PROGRAM.

The chosen track number lights up in the music calendar. If the track number, the playing order and the total playing time disappears before you press PROGRAM, go back to step 3.

Note

If "--.-" appears instead of the total playing time during programming or during play, this means:

- the total programmed time has exceeded 100 minutes, or
- you have programmed a track number which exceeds 20.

5 Repeat steps 3 and 4 to program the remaining tracks you want to be played in the order you want them to play.

6 Press ►II.

All the tracks play in the order you chose.

To	Press
Check the program	CHECK repeatedly*.
Program a pause	[]**
Stop play	
Cancel the program play	CONTINUE.***
Erase a track from the end	CLEAR in stop mode.
Erase a specific track	CHECK repeatedly so the number of the track lights up, and press CLEAR.
Erase the entire program	once in stop mode, twice during play.

- After the last track appears, "END" will appear in the display.
- ""
 Use the buttons on the remote commander to do this operation.
 "P"and "B" appear in the display and the total playing time is reset to 0.00.
 Do not program a pause when you want to use the CD SYNCHRO button for recording.
- *** The program has been erased and the play continues in normal play mode.

To change the order of programmed tracks

To change the order, erase the entire program and create a new one.

To check the total remaining time of the programmed tracks

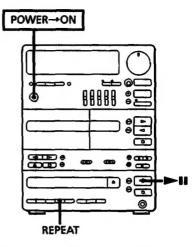
- Press TIME once to see the remaining time of the track being played.
- 2 Press TIME again to see the remaining play time of the whole program.
- 3 Press TIME once more to return to the initial display.

Playing Tracks Repeatedly (repeat play)

You can choose between two different repeat play modes. One repeats all the tracks in the current play mode; the other repeats a single track.

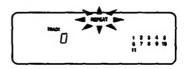
Use the buttons on the unit to do this

Use the buttons on the unit to do this operation.



Repeating all the tracks (in any play mode)

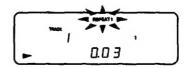
 Press REPEAT once so that "REPEAT" lights up in the display.



2 Press ►II.

Repeating a single track (in normal play mode only)

Press REPEAT twice while playing the desired track so that "REPEAT 1" lights up in the display.



To cancel repeat play

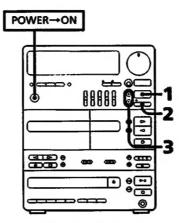
Press REPEAT several times so that "REPEAT" or "REPEAT 1" disappears from the display.

the Radio

Listening to the Radio
Presetting Radio Stations
Playing Preset Radio
Stations

Listening to the Radio

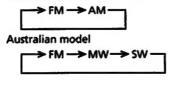
When you want to play a radio program, you can have the tuner automatically scan the radio frequencies and tune in the stations with clear signals. This feature saves you time in searching for stations with clear signals. However, stations with weak signals may be skipped by automatic tuning. Manually tune in the ones skipped by automatic tuning.

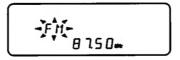


1 Press TUNER/BAND repeatedly until the band you want appears in the display.

As you press TUNER/BAND, the band changes as follows:

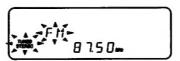
U.S.A and Canadian models





- 2 Make sure that the PRESET lamp is not on. If the PRESET lamp is on, press PRESET/TUNING to turn it off.
- 3 Press TUNER/TIMER (+/-) more than one second so that "AUTO" appears in the display.

The tuner starts scanning radio frequencies automatically, and stops when it finds a clear station.



4 If you do not want to listen to the station selected, press TUNER/TIMER (+/-) again to restart the scan.

When the desired station is not tuned in

Automatic tuning may skip the station with a weak signal. Tune in the station manually.

Press TUNER/TIMER (+/-) repeatedly and then you tuned in your favorite station.

To improve AM broadcast reception Reorient the supplied AM loop antenna for MW and SW.



To change the AM tuning interval

The MW tuning interval is preset to 9 kHz for Australia, 10 kHz for the United States and Canada in the factory. If you need to change the interval, do as follows:

- 1 Turn on the power.
- 2 Tune in any AM station.
- 3 Turn off the power.
- 4 Turn the power back on while pressing PRESET/TUNING.

After changing the AM tuning interval, reset the preset radio stations. To reset the interval to the factory setting, follow the same procedure.

When an FM program is not clear to receive

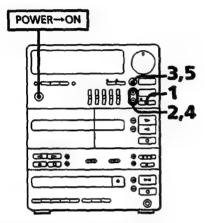
- Press STEREO/MONO on the remote commander so that "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press STEREO/MONO again to restore the stereo effect.
- Adjust the length and direction of the telescopic antenna for FM.

One Touch Play feature

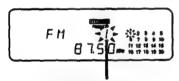
Press TUNER/BAND (or BAND on the remote commander) when the power is off. You will be able to start listening to the last received station without pressing any other buttons.

Presetting Radio Stations

You can store radio frequencies in the tuner's memory to tune in your favorite stations quickly. You can preset up to 20 FM stations, 10AM (MW) stations and 10 SW stations in any order. (20 FM stations and 10 AM stations for U.S.A. and Canada) Use the buttons on the unit to do this operation.



- 1 Make sure that the PRESET lamp is not on. If the PRESET lamp is on, press PRESET/TUNING to turn it off.
- 2 Press TUNER/TIMER (+/-) to tune in the station you want to store.
- Press MEMORY/NEXT.
 "MEMORY" and the preset station numbers appear in the display.



Preset station numbers

4 Decide on a preset number for the radio station (1 to 20 for FM, 1 to 10 for MW and SW). While "MEMORY" is lit (for about eight seconds), press TUNER/TIMER (+/-) to display window the preset number you have decided on.



- 5 Press MEMORY/NEXT. "MEMORY" disappears, and the station is stored at the preset number you have decided on.
- **6** Repeat steps 2 to 5 for each station you want to store.

To erase a stored station

Store a new station at a previously used preset station number. It will erase the old station and replace it with the new station.

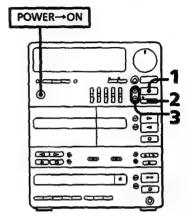
If you have trouble storing a station
Make sure "MEMORY" is lit in the display.
If not, press MEMORY/NEXT again so that
"MEMORY" lights up (for about eight
seconds) in the display, and then proceed
with steps 4 and 5.

tf you made a mistake
Press MEMORY/NEXT again and then

proceed with steps 4 and 5.

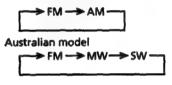
Playing Preset Radio Stations

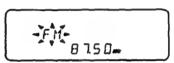
Once you have preset the stations, use the TUNER/TIMER (+/-) buttons to quickly tune in your favorite stations.



1 Press TUNER/BAND repeatedly to select the desired band.

U.S.A and Canadian models





- 2 Press PRESET/TUNING so that PRESET lamp lights up.
- Press TUNER/TIMER (+/-) to tune in a preset station.
 The station frequency appears and the station begins broadcasting.

Chapter 4: the Tape

Playing a Tape

Recording a CD

Recording a CD: Selecting **Tape Length (tape select** edit)

Recording a CD: Specifying Tape Length (time edit/ just edit)

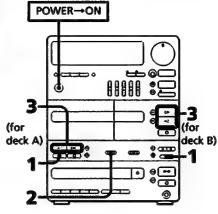
Recording a CD: Specifying **Track Order (program** edit)

Recording From the Radio

Recording From Another Tape (dubbing)

Playing a Tape

You can use TYPE I (normal) and TYPE II (CrO2) tape. When you insert a tape, the deck detects the tape type automatically.



Press \triangleq to open the tape compartment. Insert a recorded tape in deck A or B with the tape side facing down. Push to close the compartment.



2 Choose single-side, dual-side, or relay The DIRECTION mode setting affects both decks.

To play	Switch DIRECTION mode to
One side of the tape	=
Both sides*	
Both decks in succession**	RELAY

- The deck stops automatically after repeating the sequence 5 times.
- ** See "To play both decks in succession (relay play)".
- **3** Press **>** (to play the front side) or < (to play the reverse side). The tape starts playing.

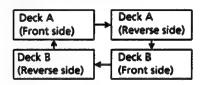
То	Press
Stop play	
Pause (for deck B only)	00 PAUSE (EE on the remote commander)
Resume play after pause (for deck B only)	II PAUSE, ✓ or ▷ (II, ✓ or ▷ on the remote commander)
Fast forward	►► for front side ✓ for reverse side
Rewind	✓ for front side → for reverse side
Remove the cassette	A

To play automatically after fast winding (auto play)

To start playing from the beginning of the front side, press → while pressing ◄. To start playing from the beginning of the reverse side, press < while pressing ► ...

To play both decks in succession (relay play)

Relay play always follows the following sequence. When the reverse side of the tape in deck B finishes playing, the following sequence continues 4 more times.



- 1 Press ≜ and insert recorded tapes in both decks.
- Set DIRECTION to RELAY.
- 3 Press > or < on either deck.</p>

To stop relay play

Press on the playing deck.

If you play both decks at the same time You hear the sound from deck A.

When one deck is playing and you press a button on the other deck

The sound is muted momentarily.

When listening to a tape recorded with the Dolby* B-type noise reduction system Set the DOLBY NR selector to ON. The setting effects both decks. Dolby noise reduction system reduces tape hiss noise in low-level high-frequency signals.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

One Touch Play feature

Press
or
on deck B) (or
on the remote commander) when the power is off.

When a tape is in the player, you will immediately be able to listen to the tape without pressing any other buttons. When a tape is not in the player, only the power will be turned on.

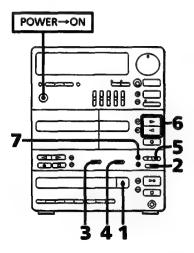
Recording a CD

You can record from a CD to a tape. Use TYPE I (normal) or TYPE II (CrO2) tape. Do not use TYPE IV (metal) tape for recording.

To listen to other sources while recording, you must stop recording.

Recording a CD Automatically

By using CD SYNCHRO button, you can record from a CD to a tape quickly. Use the buttons on the unit to do this operation.

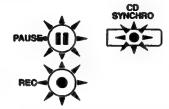


- Press ○ OPEN/CLOSE and place a CD. Then, press ○ OPEN/CLOSE again to close the CD tray. Total number of tracks, the total playing time appear in the display.
- 2 Press and insert a blank tape into deck B.
 Make sure the tabs on the cassette have not been removed.

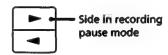
3 Select dual or single-sided recording.

To record	Switch DIRECTION to
One side	=
Both sides*	

- Recording always stops at the end of the reverse side. Be sure to start from the front side.
- 4 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.
- **5** Press CD SYNCHRO. Deck B stands by for recording.



The → (for front side) or → (for reverse side) lamp lights steadily to show you which side will start recording. The other lamp flashes for a few seconds, then disappears.



- 6 If the lamp for the side you want to start recording does not light, press ▷ or ✓ to light the side you want to start recording. If it lights, skip to step 7.
- Press II PAUSE on the tape player to release recording pause. Recording starts. After about 10 seconds, the CD starts playing.

To stop recording

Press on deck B or the CD player.

What the → and → lamps indicate
The → and → lamps light to indicate
which side starts recording.
They also tell you if a tab has been
removed.

When deck B is in either the recording or the recording pause mode

All the buttons on deck A are deactivated. Pressing any button on deck A makes REC lamp to flash.

If you press ● REC or CD CYNCHRO while deck A is activated

Deck A stops operating and deck B enters the recording pause mode.

If one lamp lights steadily and the other lamp flashes for a few seconds, then disappears

This means that recording will start from the side which the lamp lights steadily. If you want to start recording from the other side, press the other side button.

If one lamp lights steadily and the other lamp neither lights nor flashes

This means that you can record on only the side which the lamp lights steadily. (The tab on the other side has been removed.)

If one lamp flashes steadily and the other lamp neither lights nor flashes

This means that you can record on only the side which the lamp flashes steadily. Switch sides to start recording by pressing the button whose lamp flashes.

If both lamps neither light nor flash
It means that you cannot record on this
cassette. (Both tabs have been removed.)

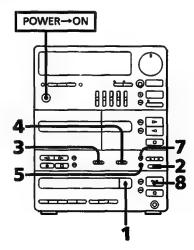
Adjusting the volume or the audio emphasis will not affect the recording level But these controls will change the sound levels you hear through speakers or headphones.

When you record from a CD without space between tracks

Record on manual recording (see "Recording a CD Manually"). When you use the CD SYNCHRO button, the recorded tape has three-second blanks between the tracks automatically.

Recording a CD Manually

You can record a CD as you like, for instance, by recording just the songs you want or record from the middle of the tape.



1 Press OPEN/CLOSE and place a CD. Then, press OPEN/CLOSE again to close the tray.

→ continued

2 Press and insert a blank tape into deck B.
Make sure the tabs on the cassette have not been removed.

3 Select dual or single-sided recording.

Switch DIRECTION to
=

- Recording always stops at the end of the reverse side. Be sure to start from the front side.
- 4 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.
- 5 Press REC.

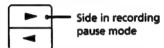
 Deck B stands by for recording.



The

(for front side) or

(for reverse side) lamp lights steadily to show you which side will start recording. The other lamp flashes for a few seconds, then disappears.



For a full explanation of the → and → lamps, see "What the → and → lamps indicate" in "Recording a CD Automatically".

- 6 If the lamp for the side you want to start recording does not light, press ▷ or ◁ to light the side to start recording. If it lights, skip to step 7.
- 7 Press 88 PAUSE on the tape player to release recording pause.
 Recording starts.
- 8 Press ►II on the CD player. The CD starts playing.

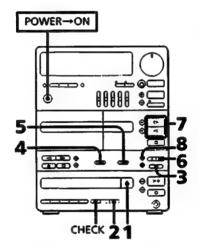
the CD starts playing.	
То	Press
Stop recording	on deck B
Pause recording	00 PAUSE on deck B
Stop CD play	on the CD player
Pause CD play	►II on the CD player

Adjusting the volume or the audio emphasis will not affect the recording level But these controls will change the sound levels you hear through speakers or headphones.

Recording a CD: Selecting Tape Length (tape select edit)

You can select the most suitable tape length for recording a CD. The unit automatically records all of the tracks on the CD in the same sequence as on that CD on sides A and B.

The display shows the optimum length of time needed to record the entire CD. Using the tape indicated in the display makes it possible to record the CD without any tracks being cut off.

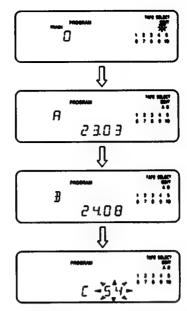


- Press OPEN/CLOSE and place a CD. Then press OPEN/CLOSE again to close the CD tray. The total number of tracks, the total playing time appear in the display.
- 2 Press EDIT.
 "TAPE SELECT" appears in the display,
 and the player divides the selections

automatically.

ന്നു ഇത്ത്രയാണ് ഇത്ത്ര പ്രത്യാക്കാര്യ അത്രായായില്ലെ അത്രായായില്ലെ അത്രായായില്ലെ അത്രായായിരുന്നു. അത്രായായി അത് അവര്ക്കാര്യ അത്രായായിരുന്നു അത്രായായിരുന്നു അത്രായായിരുന്നു. അത്രായായിരുന്നു അത്രായായിരുന്നു അത്രായായിരുന്നു അ

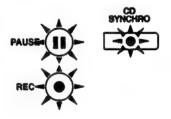
Then the display changes as follows:



- 3 Insert a blank tape of the indicated tape length (or a longer tape) into deck B.
- 4 Select dual or single-sided recording.

To record	Switch DIRECTION to
One side	
Both sides*	

- Recording will always stop at the end of the reverse side. Be sure to start from the front side.
- When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.
- 6 Press CD SYNCHRO. Deck B stands by for recording.



The ▷ (for front side) or ☑ (for reverse side) lamp lights steadily to show you which side will start recording. The other lamp flashes for a few seconds, then disappears.

- 7 If the lamp on the side you want to start recording on does not light, press ➤ or ✓ to light the side you want to start recording on. If it lights, skip to step 8.
- Press ID PAUSE on the tape player to release a recording pause.

 Recording starts.

 The CD starts playing.

To stop recording

Press on deck B or the CD player.

Notes

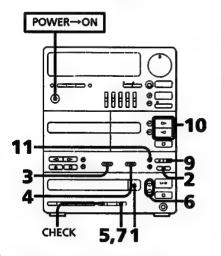
- Tape select edit does not work when you want to record CD which has more than 20 tracks.
- Be sure to release program or you cannot set tape select edit.

When you record from a CD without space between tracks

Record on manual recording (see "Recording a CD Manually"). When you use the CD SYNCHRO button, the recorded tape has three-second blanks between the tracks automatically.

Recording a CD: Specifying Tape Length (time edit/just edit)

You can have the stereo system create programs based on the tape length. The CD player makes programs that will fit the tape length. For example, if you use a 40-minute tape to record a 46-minute CD, the CD player will automatically choose tracks that will fit within the 40-minutes, filling as much of the tape as possible. The player will not program those tracks beyond track number 20. Use the buttons on the unit to do this operation.



- 1 Press ⇒ OPEN/CLOSE and place a CD. Then, press ⇒ OPEN/CLOSE again to close the CD tray. The total number of tracks, the total playing time appear in the display.
- 2 Press and insert a blank tape into deck B.
 Make sure the tabs on the cassette have

not been removed.

3 Select dual or single-sided recording.

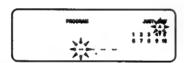
To record	Switch DIRECTION to
One side	=
Both sides*	

- Recording always stops at the end of the reverse side. Be sure to start from the front side.
- 4 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.
- 5 Choose how you want the tracks to be recorded.
 - "A" and counter flash in the display.

To fit as many tracks on the tape as possible with changing the original CD order as little as possible (time edit) Press EDIT twice.

"EDIT" appears in the display.

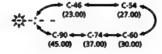
To fit as many tracks on the tape as possible by letting the CD player change the original CD order (just edit)
Press EDIT three times.
"JUST EDIT" appears in the display.



6 Press ⋈⊲ or ⋈⋈ to designate the tape length.

Choose the indication for tapes of a

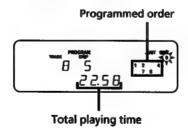
corresponding minute length.
As you press the button, the indication changes as follows:



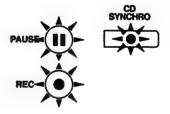


7 Press EDIT.

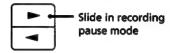
The CD player determines the tracks to be recorded on side A automatically and "B" flashes in the display.



- 8 When you want to record on both sides, press EDIT again.
 - The CD player determines the tracks to be recorded on side B.
- **9** Press CD SYNCHRO. Deck B stands by for recording.



The ► (for front side) or ► (for reverse side) lamp lights steadily and shows you which side will start recording. The other lamp flashes for a few seconds, then disappears.



For a full explanation of the ▷ and ▷ lamps, see "What the ▷ and ▷ lamps indicate" in "Recording a CD Automatically".

- 10 If the lamp for the side you want to start recording does not light, press or < lo light the side you want to start recording. If it lights, skip to step 11.
- 11 Press III PAUSE on the tape player to release a recording pause.
 Recording starts.
 The CD starts playing.

To stop recording

Press ■ on deck B or the CD player.

To select the desired tracks beforehand

You can place priority on some tracks to be recorded by selecting them before programming (only up to 20 tracks). See "Playing Tracks in the Desired Order (program play)".

To check the order

Press CHECK repeatedly.
Each time you press CHECK, the number of the programmed tracks appear in the display.

To cancel time edit/just edit

Before you press EDIT on step 7, press ■ to cancel. After you pressed EDIT on step 7, press CONTINUE.

→ continued

If programming takes too long

Some CDs with many tracks may take a while for the CD player to program in just edit mode. In this case, press ■.

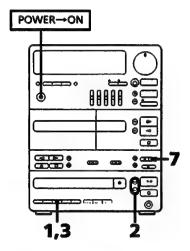
Programming will stop.

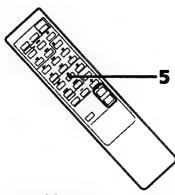
When you record from a CD without space between tracks

Record on manual recording (see "Recording a CD Manually"). When you use the CD SYNCHRO button, the recorded tape has three-second blanks between the tracks automatically.

Recording a CD: Specifying Track Order (program edit)

You can adjust the total recording time to the tape length while making a program. Use the buttons on both the unit and the remote commander to do this operation.





- 1 Press PROGRAM.
 "PROGRAM" appears in the display.
- 2 Press I or I to choose a track.

 The track number, the playing order and the total playing time appear.

3 Press PROGRAM.

The chosen track number lights up in the music calendar and is memorized. If the track number disappears before you press PROGRAM, go back to step 2.

- 4 Repeat steps 2 and 3 to program the remaining tracks you want to record on side A in the order you want them to be recorded.
- Press II on the remote commander on the CD operating buttons. "P" appears in the display. The total playing time "0.00" is displayed.
- 6 Repeat steps 2 and 3 to program the remaining tracks you want to record on side B in the order you want them to be recorded.
- 7 Press CD SYNCHRO.
 All the tracks are start recorded in the order of your choice.

To stop recording

Press on deck B or the CD player.

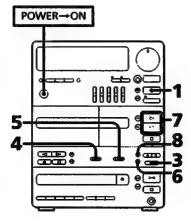
To cancel program edit Press CONTINUE.

When you record the CD without space between tracks

Record on manual recording (see "Recording a CD Manually"). When you use the CD SYNCHRO button, the recorded tape has three-seconds of blank space between the tracks automatically.

Recording From the Radio

You can record from the tuner onto a tape. Use TYPE I (normal) or TYPE II (CrO2) tape.



1 Press TUNER/BAND several times until the desired radio band appears.

- 2 Tune in the radio station you want to record. (See "Listening to the Radio", or "Playing Preset Radio Stations" for details.)
- 3 Press ≜ and insert a blank tape into deck B.

4 Select dual or single-sided recording.

To record

Switch DIRECTION to

One side

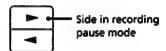
Both sides*

□

- Recording always stops at the end of the reverse side. Be sure to start from the front side.
- 5 When you want to reduce the hiss noise in low-level high-frequency signals, set DOLBY NR to ON.
- 6 Press REC.
 Deck B stands by for recording.



The ▷ (for front side) or ▷ (for reverse side) lamp lights steadily and shows you which side will start recording. The other lamp flashes for a few seconds, then disappears.



For a full explanation of the → and → lamps, see "What the → and → lamps indicate" in "Recording a CD Automatically".

- 7 If the lamp for the side you want to start recording does not light, press ▷ or ◁ to light the side you want to start recording. If it lights, skip to step 8.
- Press II PAUSE on the tape player to release recording pause. Recording starts.

To stop recording Press .

Adjusting the volume or the audio emphasis will not affect the recording level But these control, will change the sound levels you hear through speakers or headphones.

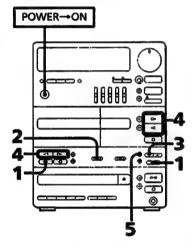
To reduce noise during AM recording If a whistling noise is heard while recording, replace the AM loop antenna for optimum reception.

Recording From Another Tape (dubbing)

Dubbing Another Tape Automatically

You can record the whole tape onto another automatically by using high speed dubbing. While dubbing at high speed, you can listen to the radio or a CD by pressing TUNER or CD.

Use the buttons on the unit and TYPE I (normal) or TYPE II (CrO2) tape for dubbing.

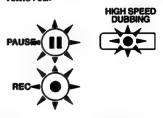


- 2 Choose how you want the tape to be recorded and set the DIRECTION mode selector.

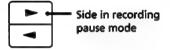
Operation		
Dubbing stops at the end of one side.		
When the tape in one deck comes to the end of the front side, it reverses immediately regardless of the tape position in the other deck.		
When the tape in one deck reaches its end of the front side, it stops until the other tape comes to its end, and then both tapes reverse together.		

3 Press HIGH SPEED DUBBING. Deck B stands by for recording.

If HIGH SPEED DUBBING indicator flashes and turns off, you are trying to record on a tape in which tabs have been removed.



4 Choose the same direction on both decks by pressing ▷ or ☒.
To dub on one side, choose ▷ or ☒.
To dub on both sides, choose ▷.



Press II PAUSE. The tape starts dubbing at high speed. When the tape has started dubbing from the reverse side in RELAY and mode, dubbing will stop at the end of the reverse side.

To stop dubbing Press .

You do not have to set DOLBY NR at high speed dubbing

The tape in deck B is automatically recorded in the same state as the tape in deck A.

Note

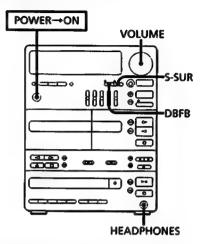
You cannot dub a tape manually.

Chapter 5: Sound Adjustment

Adjusting the Sound Adjusting the Sound Quality

Adjusting the Sound

To fully enjoy the sound coming from your stereo system, make the following audio adjustments. See the sections following this one for additional sound adjustments.



To adjust the volume

Turn the VOLUME control or press VOL (+/-) on the remote commander.

To reinforce bass

Press DBFB* so that the indicator lights up. Each time you press the button, bass reinforcement function switches on and off.

To create the atmosphere of a movie theater or concert hall

Press S-SUR** so that the indicator lights

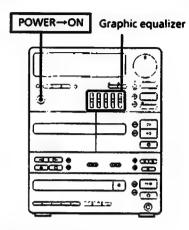
To listen through the headphones

Connect the headphones to HEADPHONES jack. No sound will come from the speakers.

- * DBFB = Dynamic Bass Feedback
- ** S-SUR = Simulated surround

Adjusting the Sound Quality

Adjust the graphic equalizer controls for the right and left speakers. The right and left channels cannot be adjusted separately.



Adjust the 5 band graphic equalizer controls as follows.

Control	Function
100 Hz	Boosts or cuts heavy bass.
400 Hz	Adjusts the potency, spaciousness and warmth of the sound.
1 kHz	Provides more presence of vocals.
4 kHz	Boosts the brighter sound and reduces the stridency.
12 kHz	Highlights the delicate quality of instrumental sound.

Chapter 6: Additional Features

Falling Asleep to Music

Waking Up to Music

Timer-Recording Radio Programs

Microphone Mixing (for FH-B511 only)

Karaoke: Singing Along (for FH-B511 only)

Connecting Optional Equipment

Falling Asleep to Music

You can set the stereo system to turn off automatically so you can go to sleep to

Before setting sleep timer, make sure the clock has been set correctly.

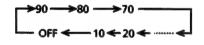
Use the buttons on the remote commander to do this operation.



- Play your favorite sound source (a tape, the tuner or CD).
- f 2 Press SLEEP while the source is playing to choose how long you want the music to play.

"SLEEP" and minutes indication appear in the display. As you press SLEEP, the indication decreases by ten minutes from 90 to 10.

The power will turn off after 90 to 10 minutes depending on the length of time you chose.





To cancel the sleep timer Set the timer to "SLEEP OFF".

To check the remaining time before the sleep timer turns off the system Press SLEEP once.

The remaining time is displayed in minutes for several seconds.

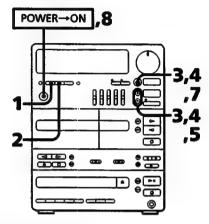
To turn off the system before the sleep timer turns off the system Press SYSTEM POWER.

To change the preset time while the sleep timer is on

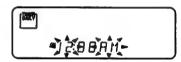
Press SLEEP several times until the desired length of time indication appears.

Waking Up to Music

You can wake up to music at a preset time. You need only set the timer once. The timer will remain activated until you reset it or you disconnect the power cord. Before setting the timer, make sure the clock has been set correctly and adjust the VOLUME control. The volume level will be same as when you turn off the unit.



- Press TIMER SET. "SELECT REC" and "SELECT DAILY" appear in the display in turn.
- **Z** Press DAILY. The hour digit and "AM" flash in the display.



- **3** Set the hour you want the music to go on by pressing TUNER/TIMER (+/-), then press MEMORY/NEXT. Set the minutes the same way.
- 4 Set the hour you want the music to go off by pressing TUNER/TIMER (+/-), then press MEMORY/NEXT. Set the minutes the same way. The sound source flashes.



5 Choose a sound source by pressing TUNER/TIMER (+/-): TUNER, CD PLAY or TAPE PLAY

6 Follow the table below.

To play	Do this	
the Radio	The station to be set is the one which is being received at the time of the timer setting.	
a CD	Insert a CD and then playing starts from the begining of the tracks.	
а Таре	Insert a tape in deck A or B with the side you want to play facing towards you.	

- 7 Press MEMORY/NEXT so that "DAILY TIMER" appears in the display. The preset items appear in the display sequentially.
- 8 Press SYSTEM POWER to turn off the system. At 10 seconds before the preset time, the power will go on and the music will play. At the turn-off time, the power will go off again.

To cancel the timer

Press DAILY so that "DAILY OFF" appears in the display.

To check the timer settings

Press DAILY twice so that "DAILY TIMER" appears in the display. When the indication is on, you can check the timer settings one by one in the display.

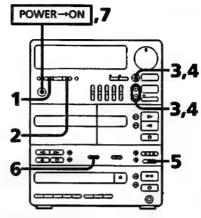
To change timer settings

Repeat steps 1 to 6.

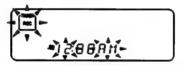
If the power is on at the preset time The sound source will automatically change to the preset one, interrupting the one currently playing.

Timer-Recording Radio Programs

You can set the timer to record the radio at a certain time. Before setting the timer make sure the clock has been set correctly. And tune in the preset station you want to record.



- Press TIMER SET. "SELECT REC" and "SELECT DAILY" appear in the display in turn.
- 2 Press REC TIMER so that "REC" appears and the hour digit and "AM" flash in the display.



- 3 Set the hour you want to start recording by pressing TUNER/TIMER (+/-), then press MEMORY/NEXT. Set the minutes the same way.
- 4 Set the hour you want to stop recording by pressing TUNER/TIMER (+/-), then press MEMORY/NEXT. Set the minutes the same way. The preset itmes appear in the display.



- 5 Insert a tape in deck B. Recording always starts from the front side. Be sure that the side you want to start recording on is facing towards you.
- Select dual or single-sided recording.

To record	Switch DIRECTION
	to
One side	=
Both sides	—

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Press SYSTEM POWER to turn off the

At the preset time, the VOLUME will automatically rotate to the MIN position soon after the power goes on and the tuner recording will start. At the turnoff time, the power will go off again.

To cancel the timer

Press REC TIMER so that "REC OFF" appears in the display and "REC" disappears from the display.

To check the timer settings

Press REC TIMER twice so that "REC TIMER" appears in the display. When the indication is on, you can check the timer settings from the display one by one.

To change timer settings Repeat steps 1 to 6.

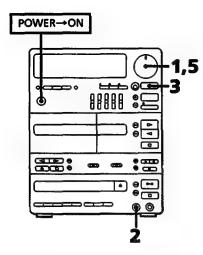
If the power is on at the preset time The sound source will automatically change to the tuner, but the tuner recording will not start.

Note

You cannot set the timer if the timer-on and -off times are the same.

Microphone Mixing (for FH-B511 only)

You can "mix" sounds by playing one of the components and singing or speaking into a microphone. The mixed sounds can then be recorded on a tape.



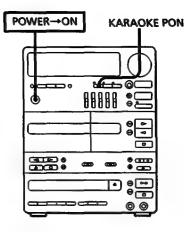
- Turn VOLUME to MIN to turn down the microphone control level.
- 2 Connect a microphone to the MIX MIC jack.
- **3** Play your favorite sound source.
- 4 Sing or speak into the microphone.
- 5 Turn VOLUME clockwise to adjust the microphone level.
- 6 Adjust VOLUME. If you hear acoustic feedback, move the microphone away from the speakers or change the direction of the microphone.
- 7 If you want to record mixed sound, insert a tape in deck B and start recording.

To record from the microphone only

- Press FUNCTION several times to select the CD player. If a CD is being played, press on the CD player to stop playing.
- 2 Start recording.
- 3 Sing or speak into the microphone.

When you finish mixing
Disconnect the microphone.

Karaoke: Singing Along (for FH-B511 only)



To Reduce the Vocals (karaoke pon)

You can minimize the singer's voice, "vocal reduction," so you can sing along with any stereo CD. When you want to record the sound of the CD and your voice, operate steps below, then operate "Microphone Mixing."

To reduce the vocals

Press KARAOKE PON so the indicator lights.

The karaoke play sound will be in monaural. To cancel vocal reduction, press KARAOKE PON so the indicator goes off.

Notes on vocal reduction

The singer's voice may not be reduced completely for the following reasons:

- Monaural recorded source (Instruments may also be reduced.)
- Only a few instruments are playing in the stereo recorded source
- A duet is being played
- The source has strong echoes or chorus
- The singer's voice on the source deviates from the center
- The voice on the source is singing in high soprano or tenor

TO THE PROPERTY OF THE PROPERT

Connecting Optional Equipment

For greater enjoyment of your stereo system, you can connect other components to the stereo. You can connect:

- a VCR, an MD recorder or a DAT deck to the VIDEO/AUX jacks
- a microphone to the MIX MIC jack (for FH-B511 only)
- headphones to the HEADPHONES jack on the front of the CD player

To connect a VCR, an MD recorder or a DAT deck

You can connect optional a VCR, an MD recorder or a DAT deck to the VIDEO/AUX jack. To listen to the connected these equipment, press FUNCTION repeatedly so that "VIDEO/AUX" appears.

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For Your Information

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Troubleshooting Guide
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Precautions

If you have any questions or problems concerning your stereo system, please consult your nearest Sony dealer.

On operating voltage

Before operating the stereo system, check that the operating voltage of your stereo system is identical with the voltage of your local power supply.

U.S.A. and Canada

120 V AC, 60 Hz 240 V AC, 50 Hz

On safety

Australia

- This unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the stereo system and have the component checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.

On installation

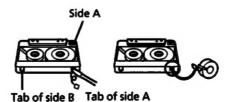
Place the stereo system in a location with adequate ventilation to prevent heat buildup in the stereo system.

On condensation in the CD player component

If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player. Should this occur, the CD player will not operate. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated. If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.



When you are using a type II (CrO2) tape, be careful not to cover the detector slots which allow the tape player to automatically detect the type of tape.

TYPE II



For the customers in the U.S.A.

- As the laser beam used in this unit is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.
- For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS".

Troubleshooting Guide

If you run into any problem using the stereo, use the following check list and first check the following points:

- The power cord is connected firmly.
- The speakers are connected correctly and firmly.

Should any problem persist after you have made the checks below, consult your nearest Sony dealer.

Tuner

"TUNED" flashes in the display.

→ Adjust the antenna.

"STEREO" flashes in the display.

→ Adjust the antenna.

Severe hum or noise.

- → Adjust the antenna.
- → The signal strength is too weak. Connect the external antenna.
- → Connect the ground wire.

A stereo FM programme cannot be received in stereo.

→ Press STEREO/MONO on the remote commander so that "STEREO" appears.

Tape Player

The tape does not record.

- → No tape in the tape compartment.
- → The tab has been removed from the cassette.
- → The tape has reeled to the end.

The tape does not record nor playback or there is a decrease in sound level.

- → The heads are dirty. Clean them.
- → Magnetic deposits have built-up on the record/playback head.

There is excessive wow or flutter, or the sound drops out.

→ The capstans or pinch rollers are contaminated.

The tape does not erase completely.

→ Magnetic deposits have built-up on the record/playback heads.

Noise increases or the high frequencies are erased.

→ Magnetic deposits have built-up on the record/playback head.

CD Player

The CD tray does not close.

→ The CD is not place correctly.

The CD will not play.

- → The CD is dirty.
- → The CD is inserted label side down.
- → The player is in pause mode.
- → Moisture condensation has builtup. Leave the system turned on for about an hour until the moisture evaporates.

Play does not start from the first track.

→ The CD player is in program or shuffle mode. Press CONTINUE.

"OVER" is displayed.

→ D>I was repeatedly pressed at the end of the CD. Press I<I (or III on the remote commander) to return to the normal display.

General

There is no sound.

- → Turn VOLUME control clockwise.
- → The headphones are connected. Disconnect them.

Sound comes from one channel or an unbalanced left and right volume.

→ Check the speaker connections of the inoperative channel.

The left and right sound are reversed.

→ Check the speaker connection and speaker placement.

Bass is lacking or the location of the musical instruments is apparently imprecise.

→ Check the speaker connection for proper phasing.

There is severe hum or noise.

→ The TV or VCR is too close to the stereo system. Move the stereo system away from the TV or VCR.

"12:00 AM" flashes in the display.

→ A power interruption occured. Set the clock and timer settings again.

The remote commander does not function.

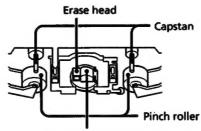
- → The batteries have run down. Replace both batteries.
- → There is an obstacle between the remote commander and the system. Remove the obstacle.

Maintenance

To clean the tape heads and tape path

Contaminated tape heads cause poor recording or sound drop-out in playback. We recommend cleaning after every 10 hours of operation.

Open the tape compartment and wipe the heads, the pinch rollers and the capstans with a cleaning swab slightly moistened with cleaning fluid or alcohol. Wipe the parts shown below:



Record/playback head

Insert a tape when the areas cleaned are completely dry.

To demagnetize the tape heads

After 20 to 30 hours of use, enough residual magnetism will have built up on the heads to begin to cause loss of high frequencies and hiss. At this time, demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer. Refer to the instructions of the demagnetizer.

To clean the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

To clean the CD

When a CD is dirty, clean it with a cleaning cloth. Wipe the CD from the center out.

Notes on CD

- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.
- If there is a scratch, dirt or fingerprints on the CD, it may cause a tracking error.

Specifications

AUDIO POWER SPECIFICATIONS (For the customers in the U.S.A.)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, both channels driven, from 60 – 20 kHz; rated 20 watts per channel minimum RMS power, with no more than 1 % total harmonic distortion from 250 milliwatts to rated output.

CD player section

System Compact disc digital audio

system

Laser Semiconductor laser
Wavelength 780 – 790 nm

wavelength 760-790

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 - 108.0 MHz (100 kHz

step for U.S.A. and Canada) (50 kHz step for Australia)

→ continued

Antenna Telescopic antenna

(for FH-B511) FM lead antenna (for MHC-550)

Antenna terminals

75 ohm unbalanced

Intermediate frequency

10.7 MHz

AM (MW.SW) tuner section

Tuning range U.S.A. and Canadian

models:

AM: 530 - 1,710 kHz (10 kHz step) 531 - 1,602 kHz (9 kHz

Australian models: MW: 530 - 1,710 kHz (10 kHz step) 531 - 1,602 kHz (9 kHz step) SW: 5.95 - 17.9 MHz

Antenna

AM loop antenna

External antenna terminals

Intermediate frequency 450 kHz

Cassette deck section

Recording system

4-track 2-channel stereo

Frequency response

(DOLBY NR OFF) 60 - 13,000 Hz (±3 dB), using TYPE I cassette (Sony HF-S)

60 - 14,000 Hz (±3 dB), using TYPE II cassette

(Sony UX-S)

Wow and flutter

0.1% WRMS ±0.3% (DIN)

Amplifier section

Coutinuous RMS Power output: U.S.A. and Canadian models:

> 25 + 25 watts (6 ohms at 1 kHz, 5% THD)

Australian models:

30 + 30 watts (6 ohms at 1 kHz ,5% THD)

Peak music power output (for Australian

models):

300 watts (2 speakers

driven)

Inputs

MIX MIC (mini jack) (for FH-B511):

Sensitivity 1 mV, impedance 600 ohms

VIDEO/AUX: Sensitivity 450 mV, impedance 47 kilo ohms

Outputs

HEADPHONES (stereo mini jack):

accept headphones of 8 ohms or more.

SPEAKER: accept impedance of 6 to

16 ohms.

Speaker section

Speaker system

Speaker units

3-way system

Woofer: 13 cm dia., cone

type

Tweeter: 5 cm dia., cone

type

Super tweeter: 2 cm dia.,

dome type Bass reflex

Enclosure

Frequency range

65 Hz - 20 kHz

Sensitivity

87 dB/W/m

Rated impedance 6 ohms

Dimensions Approx. 175 x 285 x 240

mm $(7 \times 11 \, 1/4 \times 9 \, 1/2 \, in)$

(w/h/d)

Approx. 2.8 kg (6 lb 3 oz.)

net per speaker

Supplied accessories

AM loop antenna (1) Remote commander (1)

Sony SUM-3 (NS) batteries (2)

FM lead antenna (1) (for MHC-550 only) Speaker cables (2) (for MHC-550 only)

General

Mass

Destination	Power require- ments	Power consumption
U.S.A. and Cananda	120 V AC, 60 Hz	80 W
Australia	240 V AC, 50 Hz	80 W

Power consumption

Approx. 225 x 285 x 275 **Dimensions**

mm (9 x 11 1/4 x 10 7/8 in.)

(w/h/d)

incl. projecting parts and

controls

Mass Approx. 5.7 kg (12 lb 9 oz.)

Design and specifications are subject to change without notice.

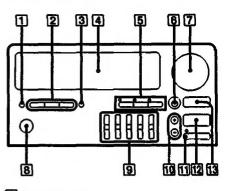
index to Parts and Controls

Refer to the pages indicated in parentheses for how to use the controls.

Controls with an asterisk have indicators on themselves.

Front Panel

Tuner/Amplifier



1 Remote sensor

[2] TIMER SET button (19, 20) DAILY button (19) **REC TIMER button (20)**

3 CLOCK SET button (6)

4 Display window (7)

5 KARAOKE PON button (for FH-8511 only) (21)

DBFB button (18) S-SUR button (18)

6 MEMORY/NEXT button (6, 11, 19, 20)

7 VOLUME control (7, 18, 21)

8 SYSTEM POWER ON/STANDBY switch (7)

9 Graphic equalizer (18)

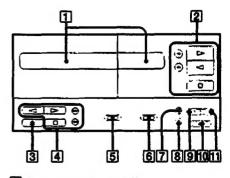
10 TUNER/TIMER (+/-) button (6, 10, 11, 19, 20)

11 PRESET/TUNING buttons (10)

12 TUNER/BAND button (10, 16)

13 FUNCTION button (8, 21)

Tape player



1 Tape compartments (12)

2 Tape operating buttons and lamp (for deck B)

(front side play) (12)

(reverse side play) (12)

(stop play) (12)

(fast rightward) (12)

◄ (fast leftward) (12) 3 ≜ button (for deck A) (12)

4 Tape operating buttons and lamp (for deck A)

(front side play) (12)

(reverse side play) (12)

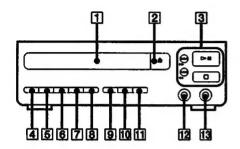
(stop play) (12)

►► (fast rightward) (12)

◄ (fast leftward) (12)

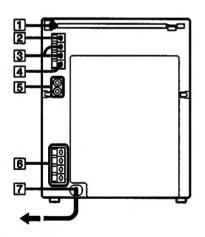
- 5 DIRECTION switch (12)
- 6 DOLBY NR switch (12)
- **7 00 PAUSE button (12)**
- 8 REC button (14, 16)
- 9 HIGH SPEED DUBBING button (17)
- 10 \to button (for deck B) (12)
- [1] CD SYNCHRO button (13, 14, 15)

CD player



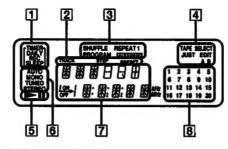
- 1 CD tray (7)
- 3 CD player operating buttons
 - ► (play and pause) (7)
 - (stop play) (7)
 - Idddd/DDI► (manual search/
 - AMS) (7)
- 4 CONTINUE button (8)
- 5 SHUFFLE button (8)
- 6 PROGRAM button (8)
- 7 REPEAT button (9)
- 8 TIME button (8)
- 9 CHECK button (9)
- 10 CLEAR button (9)
- 11 EDIT button (14)
- 12 MIX MIC jack (for FH-B511 only) (21)
- 13 HEADPHONES jack (18)

Rear Panel



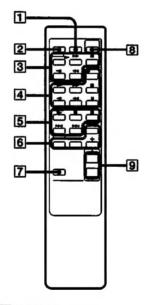
- 1 FM telescopic aerial (for FH-B511 only)
- 2 FM 75Ω terminal (4)
- 3 h earth terminals (4)
- 4 AM terminal (4)
- 5 VIDEO/AUX jacks (21)
- 6 SPEAKER connector (4)
- 7 AC power cord (5)

Display Window



- 1 Timer indications (19)
- 2 TRACK/STEP/PRESET indication (8,
- 3 CD play and MEMORY indications (8, 9,
- 4 CD recording indications (14, 15)
- 5 CD play and pause indication (7)
- 6 Tuner indications (10)
- 7 Time/frequency indication (6, 10)
- 8 Music calendar/preset radio station numbers (7, 11)

Remote commander



- 1 SLEEP button (19)
- 2 FUNCTION button (7, 21)
- 3 Deck A operating buttons
- (front side play) (12)
 - (reverse side play) (12)
 - ▶► (fast rightward) (12)
 - ◄ (fast leftward) (12)
 - (stop) (12)
- 4 Deck B operating buttons
 - (front side play) (12)
 - (reverse side play) (12)
 - ▶► (fast rightward) (12)
 - ◄◄ (fast leftward) (12) **II** (pause) (12)

- **(stop)** (12)
- REC (recording) (14, 16, 17)
- 5 CD operating buttons
 - (play) (7)
 - Idd / ▶► AMS* (7)
 - **II** (pause) (7)
 - (stop) (7)
 - * AMS: Automatic Music Sensor
- 6 Tuner operating buttons **BAND** button (10)
 - PRESET (+/-) buttons (11)
 - STEREO/MONO button (10)
- 7 CLOCK DISPLAY (6)
- 8 SYSTEM POWER button (7)
- 9 VOL (+/-) (volume) buttons (7, 18)

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